

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

System and Method for Classifying Signals Using Timing
Templates, Power Templates and Other Techniques

Application Number : 10/628603
Confirmation Number: 4642
First Named Applicant: Karl Miller
Attorney Docket Number: Cognio63US3
Art Unit: 2681



Examiner:

Search string: (6850735 or 6714605 or 20030198200 or 20030224741 or 20040028003 or 20050032479 or 20040137915 or 20050002473).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
MM	1	6850735	2005-02-01	Sugar et al.	B2	455	67.11
MM	2	6714605	2004-03-30	Sugar et al.	B2	375	340

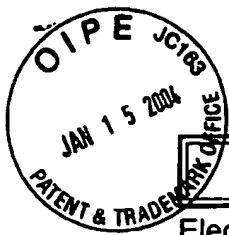
US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
MM	1	20030198200	2003-10-23	Diener et al.	A1	370	329
MM	2	20030224741	2003-12-04	Sugar et al.	A1	455	115.1
MM	3	20040028003	2004-02-12	Diener et al.	A1	370	319
MM	4	20050032479	2005-02-10	Miller et al.	A1	455	67.11
MM	5	20040137915	2004-07-15	Diener et al.	A1	455	456.1
MM	6	20050002473	2005-01-06	Kloper et al.	A1	375	316

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MM	5-21-06



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<p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p>							
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<input checked="" type="checkbox"/>	1	5432862	1995-07-11	Hirsch		382	207
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<input checked="" type="checkbox"/>	4	5905949	1999-05-18	Hawkes et al.		455	410
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<input checked="" type="checkbox"/>	9	6084919	2000-07-04	Kleider et al.		375	285
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<input checked="" type="checkbox"/>	12	5353346	1994-10-04	Cox et al.		379	386

MM	13	5912922	1999-06-15	Koszarsky et al.		375	224
MM	14	6519541	2003-02-11	Bitton	B1	702	76
MM	15	5210820	1993-03-11	Kenyon		395	2
MM	16	3609553	1971-09-28	Frazier et al.		325	67
MM	17	5144642	1992-09-01	Weinberg et al.		375	10
MM	18	4947338	1990-08-07	Vistica		364	485
MM	19	5608727	1997-03-04	Perreault et al.		370	462
MM	20	5005210	1991-04-02	Ferrell		455	115
MM	21	6240282	2001-05-29	Kleider et al.	B1	455	226.1
MM	22	6463294	2002-10-08	Holma et al.		455	513
MM	23	4979211	1990-12-18	Benvenuto et al.		704	251
MM	24	4271523	1981-06-02	Gable		714	811

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MM	1	20030123420	2003-07-03	Sherlock	A1	370	338
MM	2	20020137485	2002-09-26	Nilsson et al.	A1	455	184.1
MM	3	20030040277	2003-02-27	Deats	A1	455	63
MM	4	20020155811	2002-10-24	Prismantas et al.	A1	455	63
MM	5	20020086641	2002-07-04	Howard	A1	455	67.1
MM	6	20020154614	2002-10-24	Jagger et al.	A1	370	332
MM	7	20020142744	2002-10-03	Okanoue et al.	A1	455	226.1
MM	8	20030050012	2003-03-13	Black et al.	A1	455	62
MM	9	20010019543	2001-09-06	Mueckenheim et al.	A1	370	329

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Examiner Name	Date
<i>MM</i>	5-21-06

PTO/SB/08A (08-00)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/628,603
				Filing Date	July 28, 2003
				First Named Inventor	Karl Miller
				Group Art Unit	2681
				Examiner Name	Unknown
Sheet	1	of	1	Attorney Docket Number	0370.0063C3

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Examiner Signature	<i>[Signature]</i>	Date Considered	5-21-06
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¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.





⁶ Applicant is to place a check mark here if English language Translation is attached.

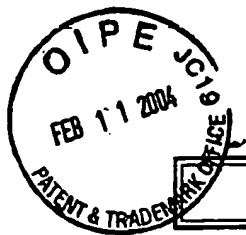


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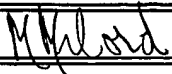
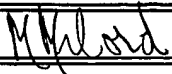
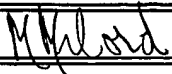
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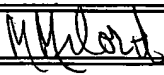
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<p><u>Certification:</u> This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:</p> <p>That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.</p>																																															
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Search string:		(20020173272).pn.					
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Signature							
Examiner Name				Date			
				5-21-06			



COGNIO, INC.
101 ORCHARD RIDGE DRIVE, SUITE 350
GAITHERSBURG, MARYLAND 20878

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: Cognio63US3
SERIAL NO.: 10/628,603
APPLICANT(S): Karl A. Miller

GROUP ART UNIT: 2681
FILING DATE: July 28, 2003
TODAY'S DATE: January 20, 2004

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class/Subclass	Translation (Yes or No)
<u>MM</u> AA	<u>2260336</u>	<u>08/15/2000</u>	<u>Canada</u>	<u>C01R 29/26</u>	
<u>MM</u> AB	<u>2298316</u>	<u>08/15/2000</u>	<u>Canada</u>	<u>H04B 1/16</u>	
<u>MM</u> AC	<u>JP 2000-022712</u>	<u>01/21/2000</u>	<u>Japan</u>	<u>—</u>	<u>Yes (Partial)</u>

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Author, Title, Date, Pertinent Pages, Etc
<u>MM</u> BA	Agilent Publication, "Agilent 89400 Series Vector Signal Analyzer Product Overview," 2000.
<u>MM</u> BB	Agilent Publication, "Agilent Technologies: 2G & 3G Solutions-Accelerating Progress," 2002.
<u>MM</u> BC	Agilent Publication, "Agilent Technologies: Power Solutions To Complex Measurement Problems; Burst, Transient and Modulated Signal Analysis," 2000.
<u>MM</u> BD	Agilent Publication, "Agilent PN 89400-8 Using Vector Modulation Analysis In The Integration, Troubleshooting And Design Of Digital RF Communications Systems," 2000 (and earlier).
<u>MM</u> BE	Agilent Publication, "Agilent PN 89400-10 Time-Capture Capabilities Of The Agilent 89400 Series Vector Signal Analyzers," 2000 (and earlier).
<u>MM</u> BF	Agilent Publication, "Agilent 89440A-1 Frequency And Time-Selective Power Measurements With The Agilent 89410A and 89440A," 2001 (and earlier).
<u>MM</u> BG	Canadian Communications Research Center, "Spectrum Explorer Project Of Canadian Communications Research Center," 1998 (and later).
<u>MM</u> BH	Stanford Research Systems, "Stanford Research Systems SR785 Two Channel Dynamic Signal Analyzer," 1998.
<u>MM</u> BI	Carlemalm, Catharina, "Suppression Of Multiple Narrowband Interferers In A Spread-Spectrum Communication System," August, 2000, IEEE Journal on Selected Areas in Communications, Special Issue on Broadband Communications, Vol. 18.

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<u>MM</u> BJ	Lo, Victor Yeeman, "Enhanced Spectral Analysis Tool (SAT) For Radio Frequency Interference Analysis And Spectrum Management," Milcom, 1998.
<u>MM</u> BK	Tektronix, "Real-Time Spectrum Analysis Tools Aid Transition To Third-Generation Wireless Technology," 1999.
<u>MM</u> BL	Patenaude, Francois et al., "Spectrum Surveillance: System Architecture," CRC-TN-97-001, Canadian Communications Research Centre, April 15, 1997.
<u>MM</u> BM	Mobilian Corporation, "WI-FI™ (802.11b) and BLUETOOTH™: an Examination of Coexistence Approaches," Mobilian Corporation, 2001.
<u>MM</u> BN	RSMS Publication, "Radio Spectrum Measurement System (RSMS) Program-Functional Measurements," January 29, 2001, 5 pages.
<u>MM</u> BO	Schreyogg, Christoph et al., "Robust Classification Of Modulation Types Using Spectral Features Applied To HMM," 1997, 5 pages.
<u>MM</u> BP	Tektronix, "Validation Testing Of Bluetooth Wireless LAN Systems," Tektronix Application Note, 2001.
<u>MM</u> BQ	Lallo, Pauli, "Signal Classification By Discrete Fourier Transform", Milcom Conference Proceedings, 1999.
<u>MM</u> BR	Quint et al., "Emitter Detection And Tracking Algorithm For A Wide Band Multichannel Direction-Finding System In The HF Band," Milcom Conference Proceedings, 1999.
<u>MM</u> BS	Dubuc et al., "An Automatic Modulation Recognition Algorithm For Spectrum Monitoring Applications," ICC '99, June 19, 1999.
<u>MM</u> BT	Shull et al., "Modulation Classification By Wavelet Decomposition Entropy Analysis1," ASME Press, Vol. 10, 15-20, November, 2000.
<u>MM</u> BU	Medav, Dr. Hans-Joachim Kolb, "Signal Processing and Neural Networks in Surveillance and Radio Monitoring," Medav, 1993, 20 pgs.
<u>MM</u> BV	Medav, "Medav OC-6040, PC-Based 4-Channel Analyzer And Demodulator For Narrowband COMINT Signals With Automatic Signal Recognition," publication date unknown, 8 pgs.
<u>MM</u> BW	BBN Technologies, "Using Signal Processing to Analyze Wireless Data Traffic," May 22, 2002, BBN Technical Memorandum No. 1321, prepared for DARPA.
<u>MM</u> BX	Medav, Dr. Hans-Joachim Kolb "Short Time Spectral Analysis of Audio Signals on a PC," unknown publication date, 6 pgs.

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<u>MM</u> BY	Aglient Technologies, "Verifying Bluetooth™ Baseband Signals Using Mixed-Signal Oscilloscopes," 2001, Application Note 1333-3.
<u>MM</u> BZ	Medav, "Astrid: Analysis System for Telecom Signals, Recognition, Interception and Demodulation of HF/VHF/UHF Radio Signals from 0 to 2 GHz," 2000, 8 pgs.
<u>MM</u> CA	Gregory P. Noone, "A Neural Approach to Automatic Pulse Repetition Interval Modulation Recognition," 1999, Proceedings of Information Decision and Control.
<u>MM</u> CB	Nolan et al., "Modulation Scheme Recognition Techniques for Software Radio on a General Purpose Platform," unknown publication date, Networks and Telecommunications Research Group, Trinity College.
<u>MM</u> CC	Medav, "Astrid++: Analysis, Monitoring, Recording and Multi-Channel Direction Finding of Wideband Radio Signals," 2000.
<u>MM</u> CD	Taira et al., "Automatic Classification of Analogue Modulation Signals by Statistical Parameters," 1999, Milcom Conference Proceedings.
<u>MM</u> CE	Bart Rice et al., "Tutorial -C: Automatic Signal Classification," 1998, EUSIPCO Conference.
<u>MM</u> CF	Oscor, "Oscor 5000 (Omni-Spectral Correlator)," unknown publication date.
<u>MM</u> CG	Logicon Company Literature (Northrup Grumman), "Logicon Specific Emitter Identification," unknown publication date.
<u>MM</u> CH	Boudreau et al., "A Fast Automatic Modulation Recognition Algorithm And Its Implementation In A Spectrum Monitoring Application," October 2000, Milcom.
<u>MM</u> CI	Ketterer et al., "Classification of Modulation Modes Using Time-Frequency Methods," 1999, IC.
<u>MM</u> CJ	Nolan et al., "Modulation Scheme Classification for 4G Software Radio Wireless Networks," unknown publication date.
<u>MM</u> CK	PCT Search Report in International Application No. PCT/US03/13572, 6 pgs.

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